Vertex and Axis of Symmetry Practice

For each quadratic equation, find the axis of symmetry and the vertex. Then state if the vertex will be a maximum or a minimum. Show all your work.

A. y = 3x2 + 6x – 1

B. y = x2 – 16x + 63

C. y = 2x2 + 8x + 9

Choose one of the problems above and explain IN WORDS how you got your answer (how you found the axis of symmetry, how you found the vertex, and how you determined whether the vertex was a maximum or a minimum).